

**12D-FB****Construction**

Item	Material	Diameter (mm)
Inner Conductor	Bare Copper or Copper Clad Aluminum	4.40
Dielectric	Foam PE	12.40
First Shield	Bonded Aluminum Foil	12.60
Second Shield	Tinned Copper wire Braid (90%)	24/7/0.15mm
Jacket	PVC or PE	15.60

**Electrical Characteristics**

Impedance ( $\Omega$ )	50 $\pm$ 3
Capacitance (pF/m)	84
Velocity of Propagation (%)	81.0
Dielectric strength (KV)	1.6
V.S.W.R	$\leq$ 1.3
Return Loss	$\geq$ 20
Screening Effectiveness (dB)	$\geq$ 90
Min. Bending Radius (mm)	75.0
Operating Temp. ( $^{\circ}$ C)	-25 to +70

**Attenuation ( @ 20  $^{\circ}$ C )**

Frequency(MHz)	Max Attenuation (dB/100ft)	Max Attenuation (dB/100m)
100	0.8	2.7
150	1.1	3.6
280	1.4	4.6
350	1.6	5.2
400	1.8	6.0
800	2.6	8.5
900	2.8	9.3
1200	3.3	10.8
1500	3.7	12.3
1800	4.2	13.7
1900	4.3	14.2
2000	4.5	14.6
2200	4.5	14.9
2500	5.1	16.6
3000	6.9	22.5